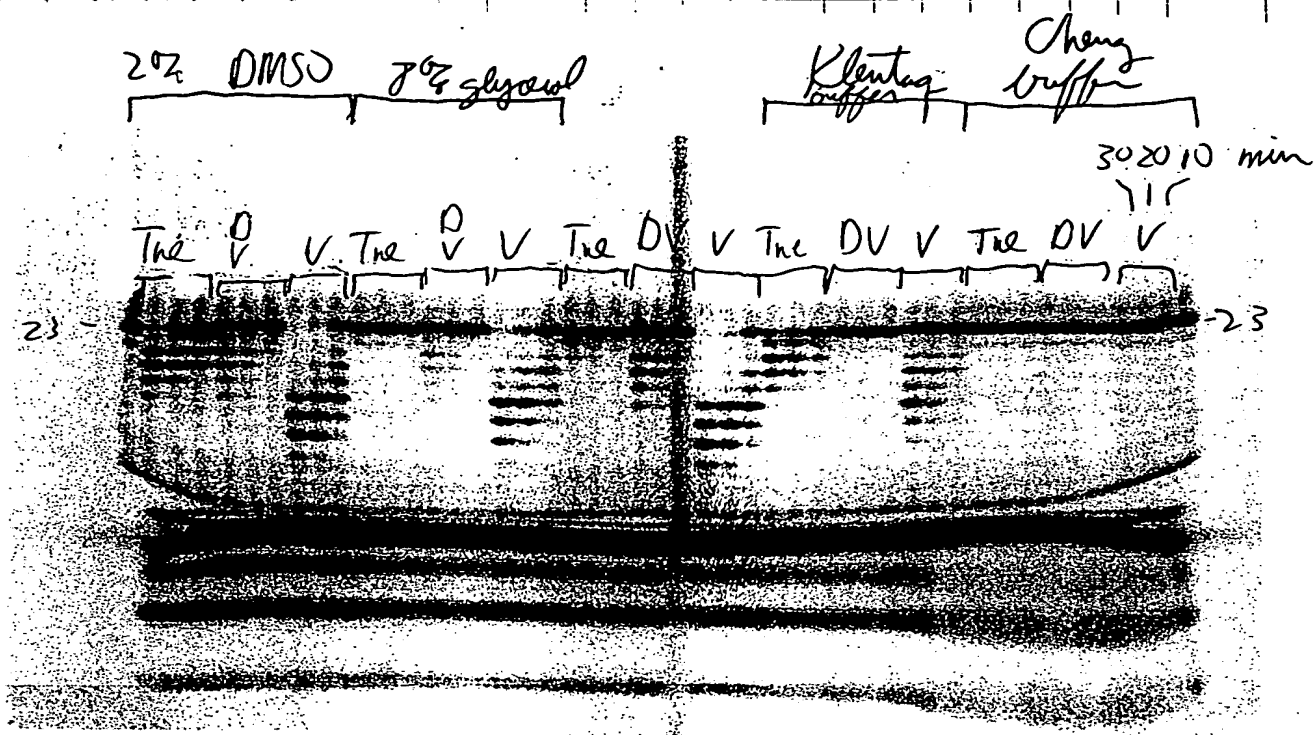


From Page No. \_\_\_\_\_



Result.

To Page

Witnessed &amp; Understood by me,

Deena Polay

Date

11/29/94

Invented by

Record d by

Date

11-5-94

**From Page No.\_\_\_\_**

	Chem	Klentag	Vent
Therac pH 8.7	20 mM		
Trio-HCl pH 9.1		50 mM	
K <sup>+</sup> OAc <sup>-</sup> pH 8.8	85		20 mM
K <sup>+</sup> Cl <sup>-</sup>			10
(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>		16	10
Mg(OAc) <sub>2</sub>	1.2		
MgSO <sub>4</sub>		1.2	2
DMSO	2 %		
Tricine			0.1 %
Tris 20 mM		0.1 % from top	
glycerol	8 %	1	1
some stuff	105	82	50
Vent	—	+	++
Deep vent	—	—	+
Tue	—	+	—

(+ for DMSO)

T	Pag	N
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
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94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

**Witnessed & Understood by me,**

Deena Golay

**Date**

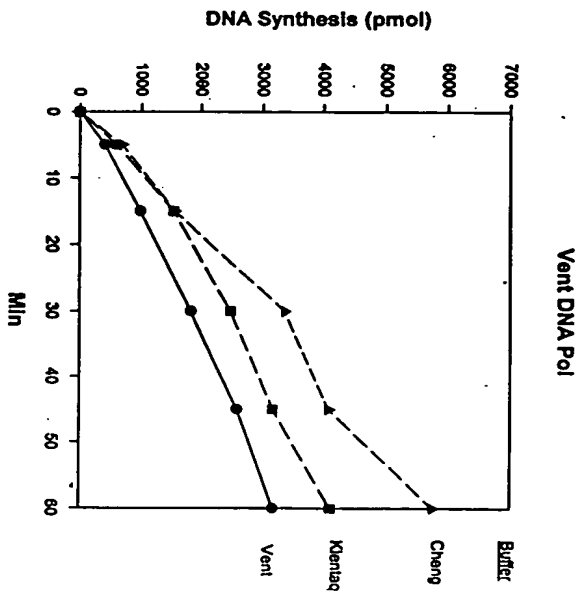
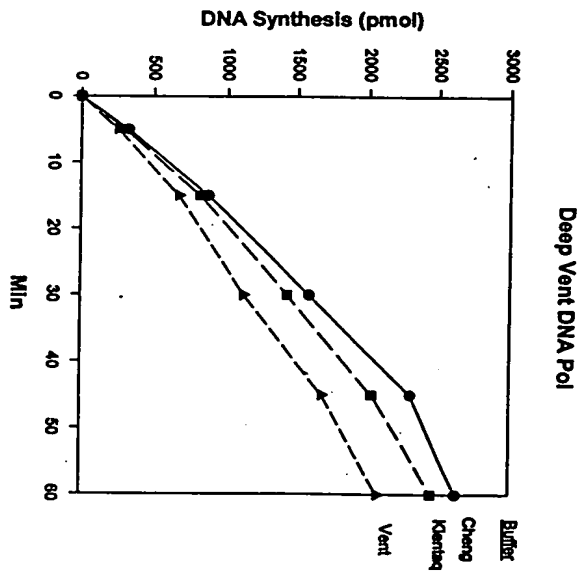
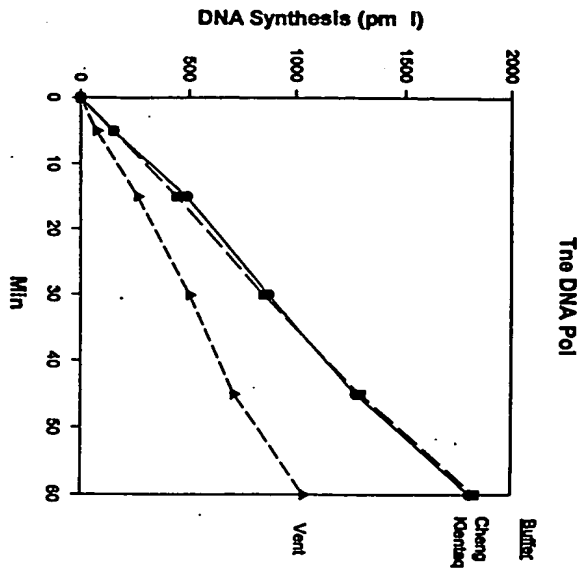
11/29/94

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**Recorded by**

**Dat**

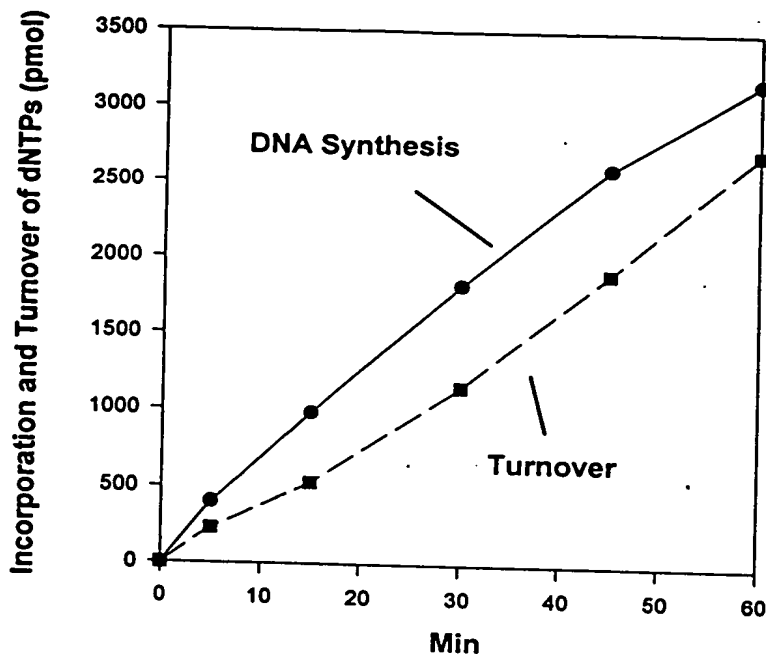
11-5-94



In each case, DNA synthesis is lower in  
 Primer degradation was highest in Vent

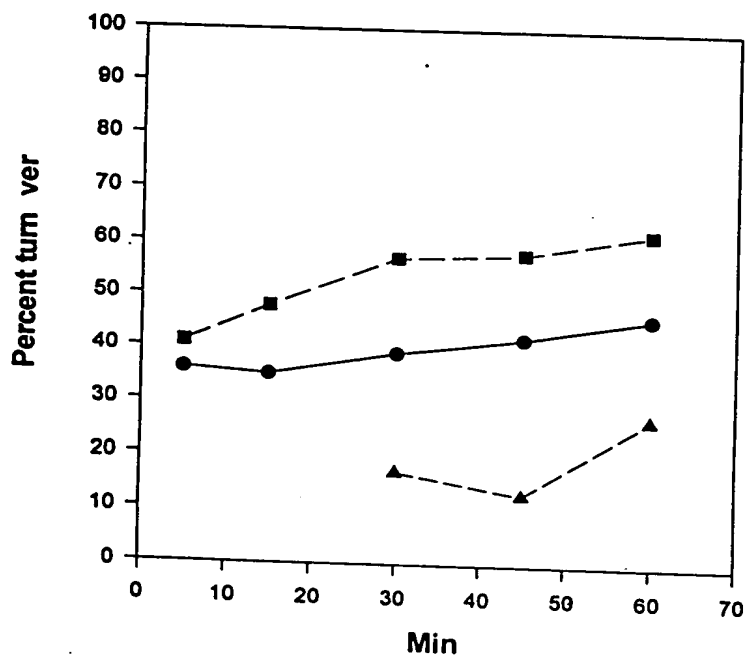
got Turnover  
 by DNA synthesis  
 ↓ below

# Vent DNA Pol in Vent Buffer



DNA synthesis  
and turnover  
to dNMP

## Activity in Vent Buffer



Percent turnover  
turnover  
incorporation + turnover

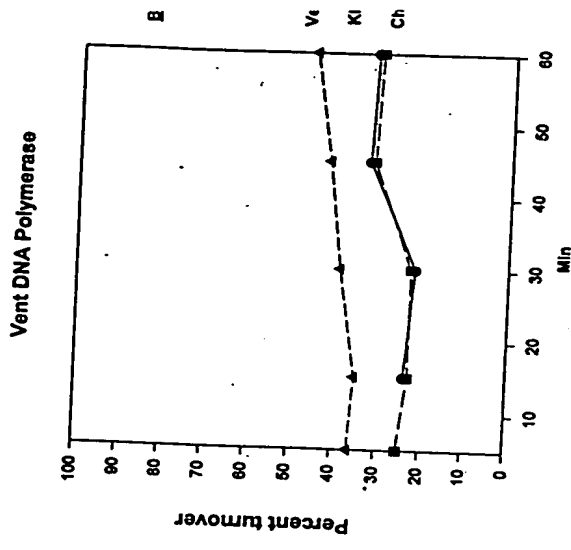
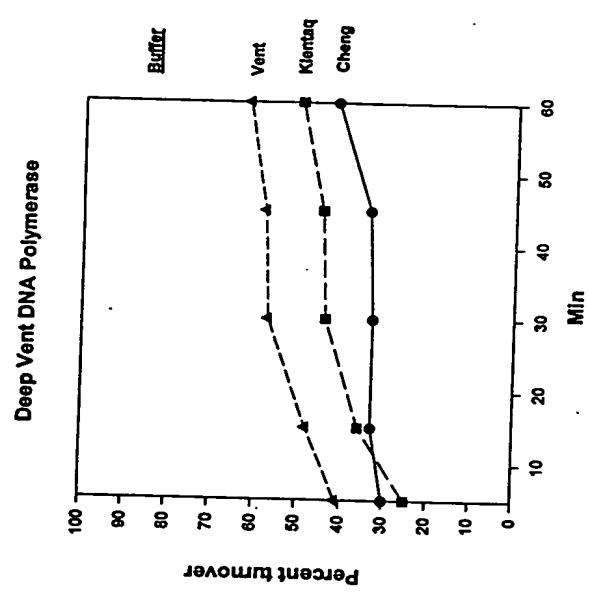
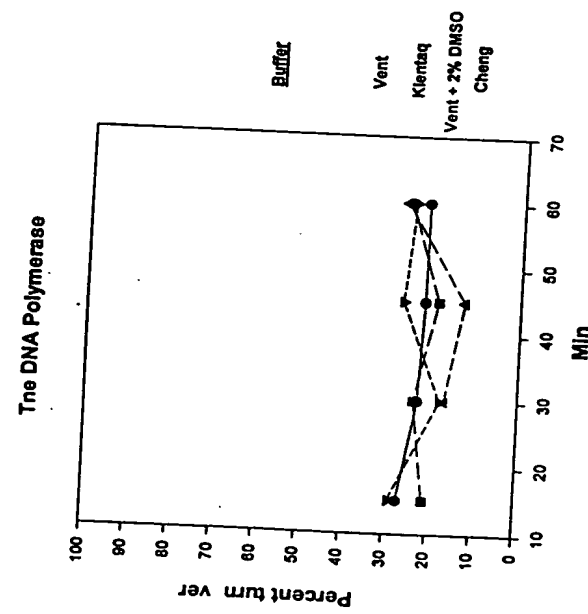
Deep Vent has  
higher turnover  
than Vent as  
expected. Tne  
is ~2x lower  
than Vent and  
Deep Vent

Witnessed & Understood by me,  
*Deanna Polcup*

Date  
 11/29/94

Invited by  
*[Signature]*  
 Recorded by

Date  
 11-5-94



*effect of buffer on turnover is not large compared to effect on primer degradation*